



Grumman F6F-5 Hellcat Checklists

For use with IL2 Sturmovik 1946 (Rev. 0)

Start Engine & Taxi

- ✓ MIXTURE- FULL RICH (120%)
- ✓ PROPELLER- FULL "INCREASE RPM" (100%)
- ✓ THROTTLE- ONE INCH OPEN (15%)
- ✓ COWL FLAPS- "OPEN"
- ✓ SUPERCHARGER- "NEUTRAL" (Stage 1)
- ✓ MAGNETOS- "BOTH"
- ✓ STARTER SWITCH- "ON" (Default Key is "I")
- ✓ ONCE ENGINE STARTS SET THROTTLE FOR IDLE (1000 RPM)
- ✓ SET ELEVATOR TRIM TO NEUTRAL OR SLIGHTLY NOSE UP
- ✓ SET RUDDER TRIM 40% RIGHT
- ✓ TAILWHEEL- "UNLOCKED"
- ✓ SPEEDBAR- KNOTS & FEET (Squadron Standard)
- ✓ SET TS COMM CHANNEL TO ATC OR AS DIRECTED BY FLIGHT LEAD
- ✓ USE BRAKE & RUDDER TO TURN PLANE LEFT OR RIGHT AS NEEDED TO VERIFY CLEAR PATH (Land Only)
- ✓ INCREASE THROTTLE AS REQUIRED TO TAXI (10-20 KNOTS recommended) (Land Only)
- ✓ TAXI IN A ZIGZAG PATTERN TO CHECK FOR OBSTACLES IN TAXI PATH (Land Only)
- ✓ TAXI INTO POSITION ON RUNWAY WHEN CLEAR (Land Only)

Takeoff (Moving Carrier)

- ✓ Wings- Spread & Locked
- ✓ Cowl Flaps- ½ Open (POS 6)
- ✓ Propeller- 100%
- ✓ Mixture- 120%
- ✓ Supercharger- Stage 1 (Neut)
- ✓ Canopy- Open
- ✓ Flaps- Landing
- ✓ Tailwheel- Unlocked
- ✓ Power- Full
- ✓ Chocks- Release
- ✓ Gear- Raise immediately upon clearing deck
- ✓ Flaps- Raise above 250ft
- ✓ Mixture- 100%

Takeoff (Static Carrier / Short Field)

- ✓ Wings- Spread & Locked
- ✓ Cowl Flaps- Closed
- ✓ Propeller- 100%
- ✓ Mixture- 120%
- ✓ Supercharger- Stage 1 (Neut)
- ✓ Canopy- Closed
- ✓ Flaps- Combat
- ✓ Tailwheel- Unlocked
- ✓ Power- Full
- ✓ Chocks- Release
- ✓ Flaps- Takeoff (at Island)
- ✓ Flaps- Landing (end of deck)
- ✓ Gear- Raise immediately upon clearing deck
- ✓ Flaps- Raise above 250ft
- ✓ Mixture- 100%
- ✓ Cowl Flaps- ½ Open (POS 2)
- ✓ Canopy- Open

Takeoff (Land)

- ✓ Wings- Spread & Locked
- ✓ Cowl Flaps- ½ Open (POS 6)
- ✓ Propeller- 100%
- ✓ Mixture- 120%
- ✓ Supercharger- Stage 1 (Neut)
- ✓ Canopy- Open
- ✓ Flaps- Landing
- ✓ Tailwheel- Locked
- ✓ Power- Full (WEP)
- ✓ Rotate at 80 KIAS
- ✓ Gear- Raise when airborne
- ✓ Flaps- Raise above 250ft
- ✓ Mixture- 100%

Climb

- ✓ Set Cowl Flaps to 1/3 Open (POS 4) & adjust as needed to maintain Cylinder Head Temp <260C (500F)
- ✓ After Form Up Set Engine:
 - 44" MP, 2550 RPM, Blower "NEUTRAL" (Stage 1) SL- 7000 FT
 - 49.5" MP, 2550 RPM, Blower "LOW" (Stage 2) 7000- 18000 FT
 - 49.5" MP, 2550 RPM, Blower "HIGH" (Stage 3) 18000 FT & UP
- ✓ Best Rate of Climb- 140 KIAS (If engine overheats increase Speed to 150 KIAS)

CONFIDENTIAL INFORMATION- AG51 USE ONLY

Cruise

- ✓ Cruise Power Settings as directed by Flight Leader
- ✓ For Maximum Range Cruising (Column V):
 - Sea Level- 1350 RPM, 34" MP, Blower NEUTRAL (Stage 1); 53 GPH; 133 KTAS
 - 5000' MSL- 1550 RPM, 34" MP, Blower NEUTRAL (Stage 1); 62 GPH; 154 KTAS
 - 10000' MSL- 1850 RPM, Full Throttle (Non-WEP), Blower NEUTRAL (Stage 1); 67 GPH; 169 KTAS
 - 15000' MSL- 1750 RPM, 34" MP, Blower LOW (Stage 2); 74 GPH; 189 KTAS
 - 20000' MSL- 1850 RPM, Full Throttle (Non-WEP), Blower LOW (Stage 2); 76 GPH; 196 KTAS
- ✓ For Maximum Continuous Cruising (Column I):
 - Sea Level- 2550 RPM, 44" MP, Blower NEUTRAL (Stage 1); 156 GPH; 216 KTAS
 - 5000' MSL- 2550 RPM, 44" MP, Blower NEUTRAL (Stage 1); 172 GPH; 234 KTAS
 - 10000' MSL- 2550 RPM, 49.5" MP, Blower LOW (Stage 2); 215 GPH; 252 KTAS
 - 15000' MSL- 2550 RPM, 49.5" MP, Blower LOW (Stage 2); 217 GPH; 271 KTAS
 - 20000' MSL- 2550 RPM, 49.5" MP, Blower LOW (Stage 2); 220 GPH; 291 KTAS
 - 25000' MSL- 2550 RPM, 49.5" MP, Blower HIGH (Stage 3); 213 GPH; 305 KTAS

Diving Checklist

- ✓ CANOPY- CLOSED
- ✓ BLOWER- NEUTRAL (Stage 1)
- ✓ PROPELLER- 2050-2250 RPM
- ✓ COWL FLAPS- CLOSED
- ✓ TRIM- CHECKED
- ✓ Maximum RPM 3060 (30 sec)
- ✓ Maximum Indicated Airspeed (Vne)- 415 KIAS

Emergency Procedures

- CAUTION- Never lower landing gear above 135 KIAS**
- CAUTION- Never exceed 300 KIAS with gear extended**
- CAUTION- Never lower flaps above 170 KIAS**
- CAUTION- Never exceed 90 KIAS with Full flap setting**
- CAUTION- Never exceed 150 KIAS with Takeoff flap setting**
- Stall Speed Gear & Flaps UP- 83 KIAS (Max Weight- 16,000 lbs); 63 KIAS (Min Weight- 9,000 lbs)**
- Stall Speed Gear & Flaps DOWN- 77 KIAS (Max Weight- 16,000 lbs); 58 KIAS (Min Weight- 9,000 lbs)**
- CAUTION- Never Dive with Cowl Flaps Open**
- CAUTION- Maximum engine RPM is 3060 RPM for 30 sec**

Engine Failure

- ✓ JETTISON ALL ORDNANCE
- ✓ COWL FLAPS- CLOSED
- ✓ SPEED- 145 KIAS, SET TRIM TO MAINTAIN
- ✓ GEAR- UP FOR OFF FIELD AND WATER LANDINGS
- ✓ FLAPS- SET TO LANDING WHEN ON SHORT FINAL
- ✓ PERFORM FULL STALL LANDING

Spins

- ✓ POWER OFF
- ✓ FULL OPPOSITE RUDDER
- ✓ FULL FORWARD ELEVATOR
- ✓ AFTER RECOVERY CONTROLS TO NEUTRAL & RAISE NOSE TO LIMIT AIRSPEED

Fire

- ✓ POWER- OFF
- ✓ COWL FLAPS- OPEN
- ✓ DIVE TO INCREASE AIRSPEED UNTIL FLAMES ARE OUT

CONFIDENTIAL INFORMATION- AG51 USE ONLY

Landing (Moving Carrier)

- ✓ Set TS Comms to ATC
- ✓ Jettison all Ordnance
- ✓ Reduce Speed to 120 KIAS
- ✓ Navigation Lights On
- ✓ Canopy- Open
- ✓ Cowl Flaps- Open
- ✓ Propeller- 2250-2450 RPM
- ✓ Mixture- Rich (100%)
- ✓ Blower- Neutral (Stage 1)
- ✓ Tailwheel- Unlocked
- ✓ Tailhook- Extended
- ✓ Lower Landing Gear- If landing gear damaged and will not lower try using manual pump. If BOTH gear will not lower then perform gear up landing.
- ✓ Wing Flaps- Combat
- ✓ Break Turn- Flaps to "Takeoff" & Speed to 90 KIAS. Radio that you are "In the Break".
- ✓ After Break Turn- Flaps to "Landing" Speed to 80 KIAS
- ✓ Abeam- Speed to 75 KIAS. Radio that you are "Abeam" and begin turn.
- ✓ Cut throttle at appropriate location
- ✓ Tailhook- Retracted
- ✓ Wings- Folded
- ✓ Taxi to bow, set chocks.
- ✓ Radio "Deck Clear"

Landing (Static Carrier)

- ✓ Set TS Comms to ATC
- ✓ Jettison all Ordnance
- ✓ Reduce Speed <120 KIAS
- ✓ Navigation Lights On
- ✓ Canopy- Open
- ✓ Cowl Flaps- Open
- ✓ Propeller- 2250-2450 RPM
- ✓ Mixture- Rich (100%)
- ✓ Blower- Neutral (Stage 1)
- ✓ Tailwheel- Unlocked
- ✓ Tailhook- Extended
- ✓ Lower Landing Gear- If landing gear damaged and will not lower try using manual pump. If BOTH gear will not lower then perform gear up landing.
- ✓ Wing Flaps- Combat
- ✓ Break Turn- Flaps to "Takeoff" & Speed to 90 KIAS. Radio that you are "In the Break".
- ✓ After Break Turn- Flaps to "Landing" Speed to 80 KIAS
- ✓ Abeam- Speed to 75 KIAS. Continue downwind for an additional 5-10 sec. Radio that you are "Abeam" and start turn.
- ✓ Cut throttle at appropriate location
- ✓ Tailhook- Retracted
- ✓ Wings- Folded
- ✓ Taxi to bow, set chocks.
- ✓ Radio- "Deck Clear."

Landing (Land Base)

- ✓ Set TS Comms to ATC
- ✓ Jettison all Ordnance
- ✓ Reduce Speed <120 KIAS
- ✓ Navigation Lights On
- ✓ Canopy- Open
- ✓ Cowl Flaps- Open
- ✓ Propeller- 2250-2450 RPM
- ✓ Mixture- Rich (100%)
- ✓ Blower- Neutral (Stage 1)
- ✓ Tailwheel- Locked
- ✓ Tailhook- Retracted
- ✓ Lower Landing Gear- If landing gear damaged and will not lower try using manual pump. If BOTH gear will not lower then perform gear up landing.
- ✓ Wing Flaps- Combat
- ✓ Downwind Leg- Flaps to "Takeoff" & Speed to 90 KIAS. Radio that you are "On Downwind" & identify landing direction.
- ✓ Base- Flaps to "Landing" & Speed to 80 KIAS. Radio that you are "On Base"
- ✓ Final- Land in first ¼ of Airfield. Unlock tailwheel and taxi to parking. When clear of the runway radio "Runway Clear"

Go-Around

- ✓ Power to Full
- ✓ Raise Landing Gear
- ✓ Raise Flaps above 250 ft
- ✓ Re-enter pattern as allowed by traffic